

Plot 7-78. Band Edge SISO CORE 0 (802.11ax OFDMA – RU26 Index 8 – Ch. 12)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	
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RL RF 50 Ω	DC CORREC	SE	ENSE:INT	#Avg Type	ALIGN AUTO	02:54:39 PM	Feb 08, 2020	Frequency
	PNO: I IFGain:	ast 🖵 Trig: Fre Low Atten: 3		weing type		TYPE	PNNNN	
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5.0								Stop Fr 2.435000000 G
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5.0								Freq Offs 0
5.0 enter 2.40000 GHz Res BW 100 kHz		#VBW 1.0 MH			Sweep 2.	Span 70).00 MHz	

Plot 7-79. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)



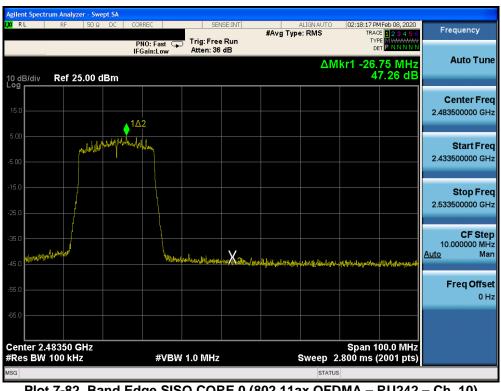
Plot 7-80. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 2)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Atten: 38 dB Atten: 48 dB At	STATUS							SG
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Independent of the second s								
Atten: 36 dB Atten: 36 dB At								65.0
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PHO: Fast Det P NNNNN IFGain:Low Atten: 36 dB Det P NNNNN ΔMkr1 - 27.75 MHz Aut 0 dB/div Ref 25.00 dBm Cent 150 1Δ2 State State 500 1Δ2 State State	2.43350000							5.00
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Atten: 36 dB Der PNNNNN IFGain:Low Atten: 36 dB Atten: 36	2.48350000							15.0
IFGain:Low Atten: 36 dB Det PINNINN Atten: 36 dB Atten:					иыш	25.00		
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	6 dB DET P N N N N N			PNO: Fast IFGain:Lov				
	#Avg Type: RMS TRACE 123456 Frequen	SENSE:INT	SE	CORREC	2 DC	RF 50 Ω	RF	RL

Plot 7-81. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 9)



Plot 7-82. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 10)

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RL	RF	<mark>er - Swe</mark> 50 Ω		ORREC		SEN	ISE:INT		ALIGN AUTO	02:05:10 P	MFeb 08, 2020	
				PNO: Fa	ist 😱	Trig: Free	Run	#Avg Typ	e: RMS	TRA	CE 123456 PE MWWWWW ET P N N N N N	Frequency
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5.00	poulsfundari	, ahada p		haling								Start Fre 2.448500000 GH
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Plot 7-83. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

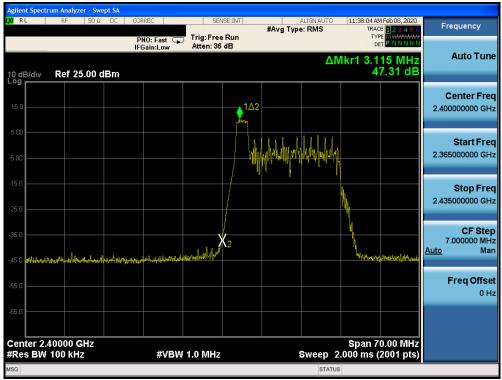


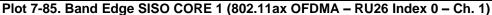
Plot 7-84. Band Edge SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 12)

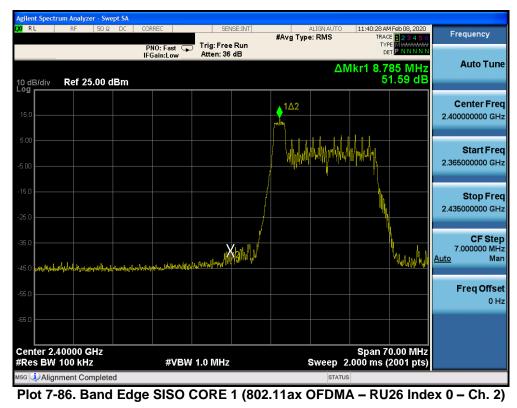
FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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SISO Core 1 Conducted Emissions at the Band Edge



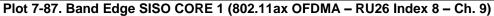


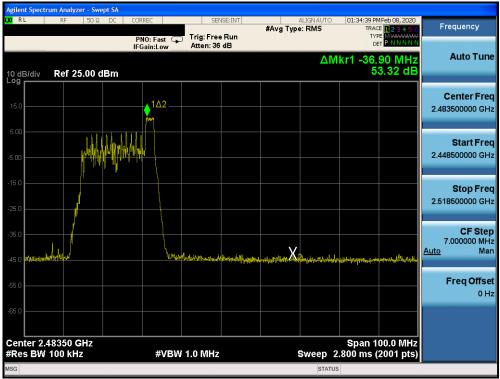


FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO	01:35:44 PM Feb 08, 2020	and the second s
	PNO: Fast G	Trig: Free Run Atten: 36 dB	#Avg Type: RMS	TRACE 123456 TYPE MWWWWWW DET PINNNN	Frequency
dB/div Ref 25.00 dBm	II Galli.Low		ΔΜ	kr1 -23.95 MHz 55.67 dB	Auto Tur
5.0					Center Fr 2.483500000 GI
					Start Fr 2.448500000 G
5.0					Stop Fr 2.518500000 G
5.0 ml.Mar	The and the second second	upert-webs, Vaters X @15/101.use	hetertheordelistration and neutron to provide the	n, m, with the fill the standard state of the	CF St e 7.000000 M <u>Auto</u> M
5.0					Freq Offs 0
enter 2.48350 GHz Res BW 100 kHz	#VBV	√ 1.0 MHz	Sweep 2	Span 100.0 MHz 2.800 ms (2001 pts)	





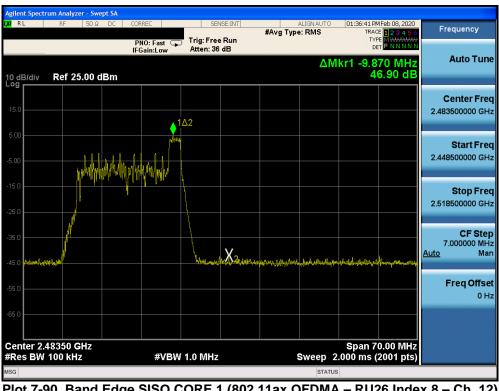
Plot 7-88. Band Edge SISO CORE 1 (802.11ax OFDMA – RU26 Index 8 – Ch. 10)

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PND: Fast Trig: Free Run Rten: 36 dB Avg Type: RMS Trace B22 as to recent the second se	Agilent Spectrum /			PREC	OFA		ALIGN AUTO	01/02/47 54	45-b 00, 2022	
Line Line <thline< th=""> Line Line</thline<>	A RL	RF 50 Ω	Р	NO: Fast 🔾	Trig: Free	Run		TRAC		Frequency
150 102 1		ef 25.00 c		Gam.Low			ΔM	kr1 -18.1 5	65 MHz 0.20 dB	Auto Tune
Start Free 2.44850000 GH 250 250 250 250 250 250 250 250 250 250	15.0			1∆2						Center Freq 2.483500000 GHz
25 0 55 0 56 0 57 0 50 0	-5.00									Start Fred 2.448500000 GH
Auto 7.000000 MH Auto 7.000000 MH Auto 7.000000 MH Auto 6.0 M 6.0 H 6.0 H 6.0 H 6.0 H 6.0 H 6.0 H 6.0 MHz 6.0 MHz	-15.0	1								Stop Free 2.518500000 GH
550 Eenter 2.48350 GHz Res BW 100 kHz #VBW 1.0 MHz Sweep 2.000 ms (2001 pts)	-35.0				ushan distributedaya ta	mannt	 and the second secon	والمعالية والمحافظة	en and a look and	CF Step 7.000000 MH <u>Auto</u> Mar
enter 2.48350 GHz Span 70.00 MHz Res BW 100 kHz #VBW 1.0 MHz Sweep 2.000 ms (2001 pts)	-55.0									Freq Offse 0 H
Res BW 100 kHz #VBW 1.0 MHz Sweep 2.000 ms (2001 pts)	-65.0	50 GHz						Span 7	0.00 MHz	
				#VBW	1.0 MHz		Sweep	2.000 ms (2001 pts)	

Plot 7-89. Band Edge SISO CORE 1 (802.11ax OFDMA – RU26 Index 8 – Ch. 11)



Plot 7-90. Band Edge SISO CORE 1 (802.11ax OFDMA – RU26 Index 8 – Ch. 12)

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10 dB/div Ref 25.00 15.0 5.00 -5.0	PN0: Fast GIFGain:Low	Trig: Free Atten: 36	dB	#Avg Type	ΔΜ k	TYF DE	45 MHz 1.70 dB	Frequency Auto Tur Center Fre 2.400000000 GH Start Fre 2.36500000 GH
-15.0 -25.0	dBm		pure loster	an tertheorem between the	1Δ2	r1 17.0 4	45 MHz 1.70 dB	Center Fre 2.40000000 GF Start Fre 2.36500000 GF
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5.00 15.0 25.0			panleder 	Norther Contraction of the				2.365000000 GH
25.0			}			\ \		Stop Er
35.0			-					2.435000000 GI
15.0 Manufacture	noof all for rilling all when a for some all the	www.	2 2			huterhouse	manthubu	CF Ste 7.000000 Mi <u>Auto</u> Ma
5.0								Freq Offs 0 I
50 Center 2.40000 GHz Res BW 100 kHz		N 1.0 MHz			Sweep 2.	Span 7	0.00 MHz	

Plot 7-91. Band Edge SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 1)



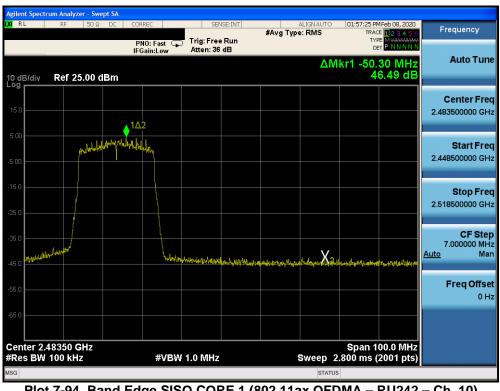
Plot 7-92. Band Edge SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 2)

FCC ID: BCGA2228	<u><i>PCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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(IRL	r <mark>um Analyzer -</mark> RF 5	DQ DC	CORREC	SE	NSE:INT		ALIGNAUTO	01:56:22 PM	Feb 08, 2020	
			PNO: Fast IFGain:Low	Trig: Fre	e Run	#Avg Typ	e: RMS	TRACE	123456 MWWWWW PNNNNN	Frequency
0 dB/div	Ref 25.0	0 dBm	il Galilleow				ΔM	kr1 -29.2 47	20 MHz 7.97 dB	Auto Tun
15.0		1	Δ2							Center Fre 2.483500000 GH
5.00	pay Maladalan	hypelwilshankele 1	HI,							Start Fre 2.448500000 GH
25.0										Stop Fre 2.518500000 G⊦
35.0 A.J.A.A.A 45.0			hanhlyste	Well of more real of the	Leti Xeraala	n rebylan er or disse	halan yi hikana da	hadden og over angeleren.	ralaadhaadhaa	CF Ste 7.000000 M⊦ <u>Auto</u> Ma
55.0										Freq Offs 0 ⊦
65.0										
enter 2.4 Res BW	48350 GHz 100 kHz		#V	BW 1.0 MHz			Sweep 2	Span 10 800 ms (2	0.0 MHz 2001 pts)	
SG							STATUS			

Plot 7-93. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 9)



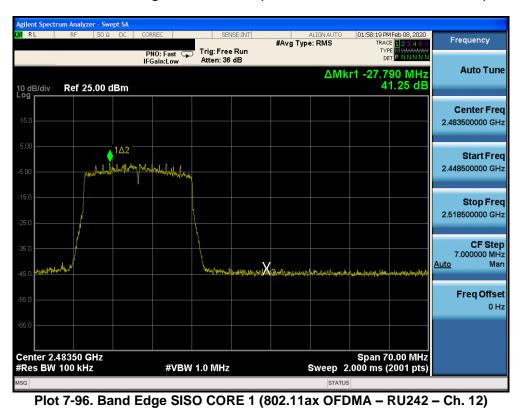
Plot 7-94. Band Edge SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 10)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
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RL	RF	50 Ω D	C COR	REC	SEM	ISE:INT		ALIGN AUTO	02:01:44 P	MFeb 08, 2020	
			DA	IO: Fast 🔾	Trig: Free	Run	#Avg Typ	e: RMS	TRA	CE 123456 PE MWWWWW ET P N N N N N	Frequency
			IFG	iain:Low	Atten: 36				D	et <mark>P N N N N N</mark>	
								ΔMk	r1 -43.0	15 MHz	Auto Tun
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5.00		1∆2									
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5.00	AN CAL AND	1	- Markinson and Mark	mber							2.448500000 GH
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											2.518500000 GH
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55.0											Freq Offs
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5.0											
	10050 01								0		
	48350 GH 100 kHz	12		#VB)	V 1.0 MHz			Sween_2	Span /	0.00 MHz (2001 pts)	
G G	100 1112			<i></i>	- INV 10112			STATUS		zoor proj	

Plot 7-95. Band Edge SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 11)



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7.6 Conducted Spurious Emissions §15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, RU configurations, and RU indices were investigated to determine the worst case configuration. For the following out of band conducted emissions plots, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r01.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 KDB 558074 D01 v05 – Section 8.5 ANSI C63.10-2013 – Section 14.3.3 KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

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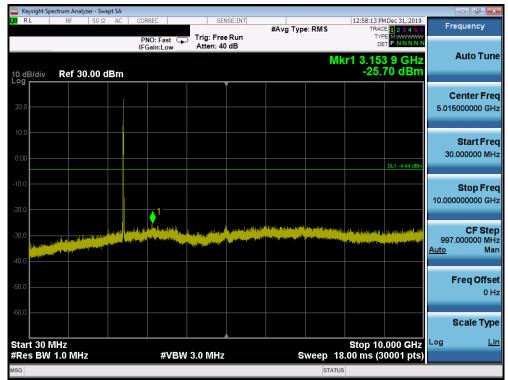


- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
- 4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
- 5. All antenna configurations were investigated and only the worst case is reported.
- 6. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.

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SISO Core 0 Conducted Spurious Emission





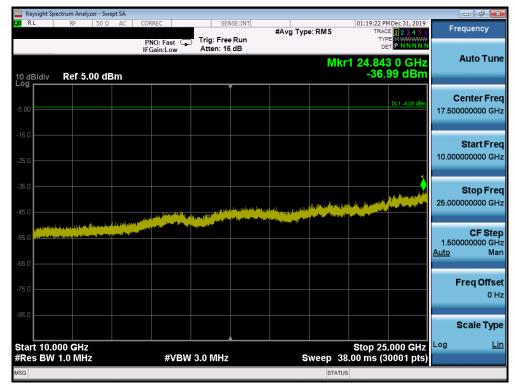


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🚾 Keysig 🗶 R.L	ght Spectrum Ri	Analyzer - Swe 50 Ω		CORREC	S	ENSE:INT			01:19:00 P	M Dec 31, 2019		
				PNO: Fast	Trig: Fr		#Avg Typ	e:RMS	TY	DE 123456 PE MWWWW	Frequency	
				IFGain:Low	Atten: 4	40 dB			-		Auto Tu	un
0 dB/c	div Re	f 30.00 d	iBm					M	kr1 7.31 -25.	6 4 GHz 22 dBm	Autori	
° ¶											Center F	=re
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10.0												
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											Scale Ty	
	30 MHz BW 1.0	MH7		#\/	3W 3.0 MH	7		ween 1	Stop 10	.000 GHz 0001 pts)	Log	L
SG		WIT12		# V	5W 5.0 MIN			STATU		(oour pis)		

Plot 7-99. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 6)



Plot 7-100. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 6)

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K RL	RF	50 Ω	AC	COR	REC	SEI	ISE:INT				M Dec 31, 2019	Frequer	
					IO: Fast 📮 ain:Low	Trig: Free Atten: 40		#Avg Typ	e: RMS	TRA TY D	DE 1 2 3 4 5 6 PE MWWWW ET P NNNNN		
I0 dB/div	Ref	30.00 d	Bm						Μ	kr1 6.31 -24.	1 1 GHz 67 dBm	Auto	o Tur
20.0												Cente 5.0150000	
0.00											DL1 -4.02 dBm	Sta 30.0000	rt Fre
10.0 20.0								1				Sto 10.0000000	p Fr 100 G
30.0 40.0			a a a a a a a a a a a a a a a a a a a					Professional physical sectors of the sector		lan jilada ong tosan pertang Ang dahan pertangan pertang		0997.0000 <u>Auto</u>	F Ste 100 MI M
50.0												Freq	Offs 01
60.0												Scal	е Тур L
itart 30 l Res BW		Hz			#VBW	/ 3.0 MHz		s	weep 1	Stop 10 8.00 ms (3	.000 GHz 80001 pts)	LUg	L

Plot 7-101. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)



Plot 7-102. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)

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KI RL	RF	50 Ω	AC	COR	REC	SEN	NSE:INT	#Avg Ty	e PMS		M Dec 31, 2019 DE 1 2 3 4 5 6	Freque	ncy
					0: Fast 🖵 ain:Low	Trig: Free Atten: 40		#Avg iy	Se. RMS	TY	PE MWWWWW ET PNNNNN		
10 dB/di	v Re	f 30.00 c	lBm						М	kr1 7.24 -24.	0 3 GHz 18 dBm	Aut	o Tur
20.0												Cent 5.0150000	
0.00												Sta 30.0000	ITT Fre
10.0									1		DL1 -10.27 dBm	Sto 10.0000000	pFr 000 GI
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50.0												Freq	Offs 0
60.0													е Тур
	0 MHz W 1.0 I	MHz			#VBW	3.0 MHz			Sweep 1	Stop 10 8.00 ms (3	.000 GHz 00001 pts)	Log	L

Plot 7-103. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)



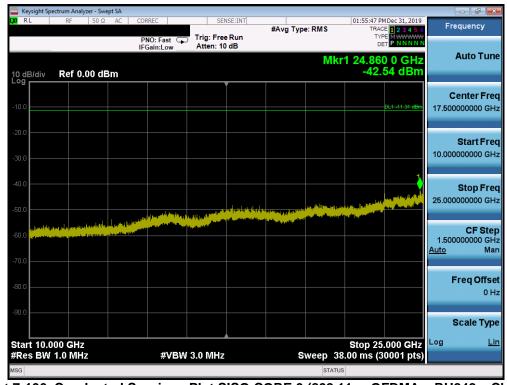
Plot 7-104. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dara 00 46404
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RL RL	RF 50		000050	05				04.55.04.5			7 2
KL	RF SU	Ω AC	CORREC PNO: Fast			#Avg Typ	e: RMS	TRA TY	M Dec 31, 2019 CE 1 2 3 4 5 6 PE M WWWWW ET P N N N N N	Frequenc	су
0 dB/div	Ref 30.00) dBm	IFGam.Low _				M	kr1 3.06 -24	9 9 GHz 36 dBm	Auto	Tur
. og										Center 5.01500000	
10.0 D.00										Start 30.000000	
20.0			1						DL1 -11.31 dBm	Stop 10.00000000	
80.0 4701 the factor 40.0					i ganaris (na sistema si Inggalan na sistema si	1 Parased Na (Hayrach		<mark>tenti senan k_{an}tan</mark> Kalimena ti tendaria	ne palasang Pang Ina Palasan Ng Palasang Pang Ina Palasan Ng Palasang Pang Ina Palasan	CF 997.000000 <u>Auto</u>	
i0.0										Freq C	Offs 0
50.0 Start 30 N								Stop 10	0.000 GHz	Scale	Ty L
Res BW	1.0 MHz		#VB	N 3.0 MHz		s	weep 1	8.00 ms (3	30001 pts)		

Plot 7-105. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-106. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Analy											d 💌
XU RL	RF	50 Ω	AC	CORREC PNO: Fa	ist 🖵 ow		#Avg Typ	e:RMS	TF	P PM Dec 31, 2019 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequ	iency
0 dB/div	Ref 30	0.00 dE	3m					N	1kr1 3.2 -2	87 9 GHz 5.90 dBm	Au	ito Tun
20.0											Cer 5.01500	iter Fre 0000 G⊦
0.00												t art Fre 0000 M⊦
20.0										DL1 -10.44 dBm	S i 10.00000	t op Fre 0000 G⊦
30.0 10.0 40.0						<u>مانسیالی</u>						CF Ste 0000 MH Ma
50.0											Fre	e q Offs 0 F
60.0									Stan	10.000 GHz		ale Typ L
	11.0 MH	z		#	VBW	3.0 MHz	s	Sweep	18.00 ms	(30001 pts)		_
SG								STAT	rus			

Plot 7-107. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

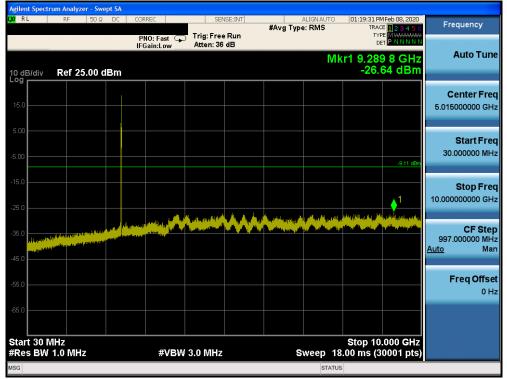


Plot 7-108. Conducted Spurious Plot SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

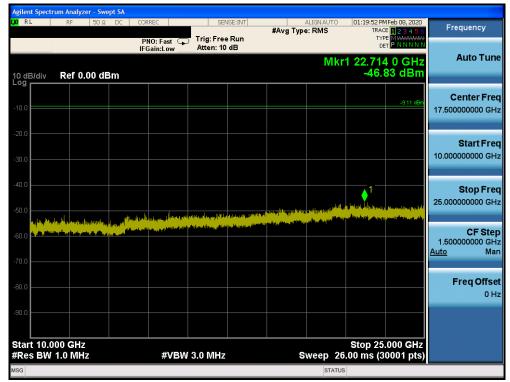
FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dana 05 at 404
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SISO Core 1 Conducted Spurious Emissions



Plot 7-109. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)



Plot 7-110. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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RL		RF	50 Ω	DC	CORRE	:C		SENSE:INT		ALIGN AUTO		4Feb 08, 2020	Frequency
):Fast ⊂ in:Low		ree Run : 36 dB	#Avg T	ype: RMS	TY	CE 123456 PE MW////////////////////////////////////	
0 dB/c	liv R	ef 25	.00 d	Bm						M	kr1 4.97 -26.	1 1 GHz 45 dBm	Auto Tu
15.0													Center Fr 5.015000000 G
5.00													
5.00												-7.29 dBm	Start Fr 30.000000 M
5.0													Stop Fr 10.000000000 G
5.0					الله م		an th iose the process		Alge Mala Barrana		n altractive and the state	aptrilate provinte	
حافد		a na far far far far far far far far far fa	and an and a start of the second s				ka 🔁 Jahan Add			منظر بالأسطار وال. ا		Teaching, adding, and Disc	CF St 997.000000 M <u>Auto</u> M
5.0													Freq Off
i5.0													. 0
	30 MHz 3W 1.0		:			#VB	N 3.0 M	Hz		Sweep 1	Stop 10 8.00 ms <u> (3</u>	.000 GHz 0001 pts)	

Plot 7-111. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 6)

(<mark> </mark> RL	RF	50 Ω	DC	CORREC	- · -		#Avg Typ	ALIGN AUTO e: RMS	TRA	MFeb 08, 2020 CE 1 2 3 4 5 6 (PE M WARAAAAA	Frequency
				PNO: Fast G	Atten: 10				ſ	PNNNNN	
I0 dB/di	v Ref	0.00 dE	₿m					Mki	1 22.13 -47.	7 0 GHz 27 dBm	Auto Tur
										-7.29 dBm	Center Fre
10.0											17.500000000 GH
20.0											
30.0											Start Fre 10.000000000 Gł
40.0									<u>1</u>		Stop Fre
-50.0				فالطفأة ورورو ففردواه	de latence monthal a second	The Charles	ار روز این به برد در از این	a a la sur a sur a la sur a	() (Constants of the second		25.000000000 GI
60.0 9.4		Bayan Anton Sectors Instantion		and the state of the		الأطلاق وريق والمعرو	and the state of the second data				CF Ste
00.0											1.500000000 GI Auto M
70.0											
80.0											Freq Offs
.90.0											01
50.0											
	0.000 G								Stop 2	5.000 GHz	
¢Res B	W 1.0 N	ЛНz		#VB	V 3.0 MHz		*	weep 20	6.00 ms (3	30001 pts)	

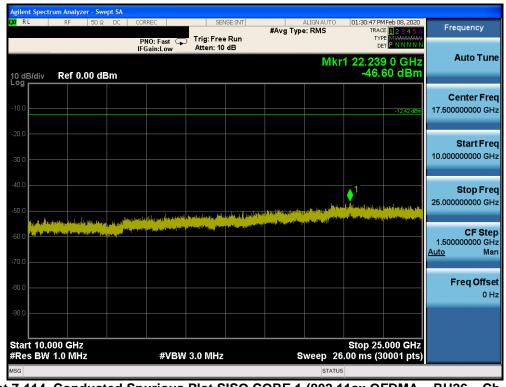
Plot 7-112. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU26 – Ch. 6)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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f 25.00 dBn	IFGa	0: Fast 🕞) Trig: Free Atten: 36		#Avg Type		r1 6.08	4 8 GHz 4 1 dBm	Auto Tu Center Fr 5.015000000 G
T 25.00 dBn	n					Mk	r1 6.08 -26.	4 8 GHz 41 dBm	Center Fr
									Start Fr 30.000000 M
					↓ 1			-12.42 dBm	Stop Fr 10.000000000 G
a transvisti († 2000) 1995 - Maria († 2000) 1995 - Maria († 2000) 1996 - Maria († 2000)				WWW					CF St 997.000000 M <u>Auto</u> M
									Freq Offs 0
							Stop <u>1</u> 0	.000 GHz	
	AHz						Alternative Alternative	Stop 10	Image: Note of the second se

Plot 7-113. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)



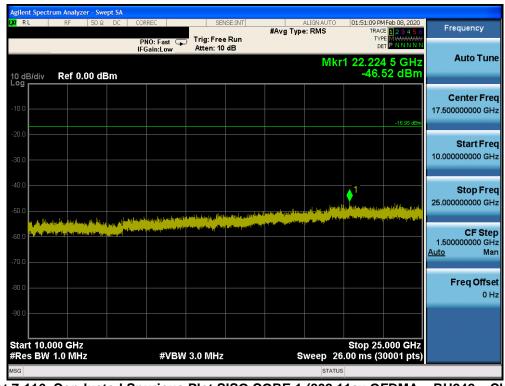
Plot 7-114. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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RL	RF	50Ω D0	: COF	REC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		Feb 08, 2020	Frequency
			PI IF(NO: Fast 🕞 Gain:Low	Trig: Free Atten: 36		wavg typ	e. Kino	TYP	E MWWWWW P N N N N N	
0 dB/div	Ref 25.0	00 dBn	n					MI	(r1 5.185 -26.6	58 GHz 50 dBm	Auto Tur
15.0											Center Fre 5.015000000 GF
5.00 											Start Fro 30.000000 Mi
5.0						≬ ¹				-16.95 dBm	Stop Fr 10.000000000 G
5.0 <mark>-11/0/10</mark>		i al la contra da l La contra da la contr				***				ingeneration ingeneration Kanada kanada ingeneration	CF Sto 997.000000 M <u>Auto</u> M
5.0											Freq Offs 0
i5.0	₩Hz								Stop 10.	000 GHz	
	1.0 MHz			#VBW	3.0 MHz		s	weep 18	.00 ms (3	0001 pts)	

Plot 7-115. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)



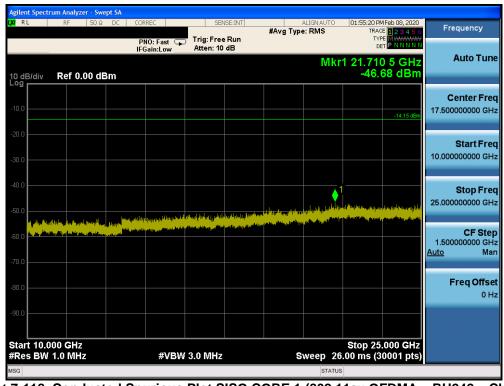
Plot 7-116. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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RL	RI	F 50	DΩ D	c coi	RREC	SEP	ISE:INT	#Avg Ty	ALIGN AUTO		MFeb 08, 2020 E 1 2 3 4 5 6	Frequency
				P IFI	NO: Fast Gain:Low	Trig: Free Atten: 36				TYI	PE M wanana Et <mark>P N N N N N</mark>	
0 dB/di [,]	v Re	ef 25.0	0 dBr	n					M	kr1 7.20 -26.	3 7 GHz 01 dBm	Auto Tur
15.0												Center Fre 5.015000000 GH
5.00 												Start Fre 30.000000 Mi
5.0									1		-14.15 dBm	Stop Fr 10.000000000 Gi
5.0 	alita ga di bia	an a									A second s	CF Sto 997.000000 M <u>Auto</u> M
5.0												Freq Offs 0
5.0	0 MHz									Stop 10	.000 GHz	
	W 1.0	MHz			#VB	W 3.0 MHz		5	Sweep 1	3.00 ms (3	0001 pts)	

Plot 7-117. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 6)



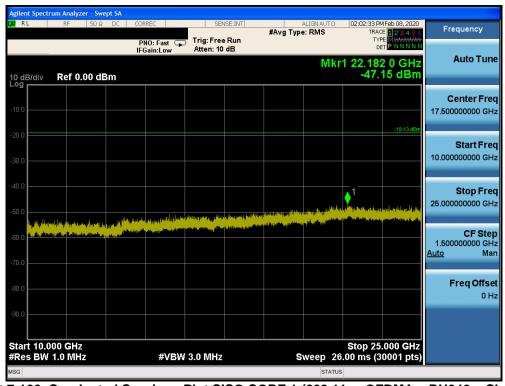
Plot 7-118. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 6)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Agilent Spectr <mark>X/</mark> RL	<mark>um Analyzer - S</mark> RF 50		CORREC PNO: Fast G		#Avg Typ	ALIGN AUTO e: RMS	TRA	MFeb 08, 2020 CE 1 2 3 4 5 6 PE M WWWW ET P N N N N N	Frequency
10 dB/div	Ref 25.00	dBm	IFGain:Low	Paten. 00		Μ	kr1 7.22	9 0 GHz 15 dBm	Auto Tune
15.0									Center Freq 5.015000000 GHz
-5.00									Start Free 30.000000 MHz
-15.0						1		-19.13 dBm	Stop Freq 10.000000000 GHz
-35.0	l II in middle and a second second second	an Calendard Headed Anna San San San San San San San San San						n and Billion and an addition of the second s	CF Step 997.000000 MH <u>Auto</u> Mar
-55.0									Freq Offse 0 H
-65.0 Start 30 M #Res BW			#\/B\A	√ 3.0 MHz		ween 1	Stop 10).000 GHz 30001 pts)	
ISG	1.0 10112		<i></i>	7 J.0 IVII 12		STAT		5000 i pts)	

Plot 7-119. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA – RU242 – Ch. 11)



Plot 7-120. Conducted Spurious Plot SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)

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7.7 Radiated Spurious Emission Measurements – Above 1 GHz §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-19 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-19. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3 KDB 558074 D01 v05r01 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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The EUT and measurement equipment were set up as shown in the diagram below.

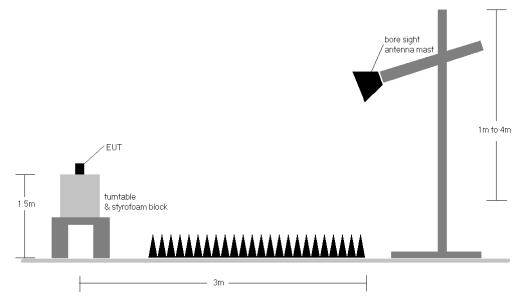


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r01 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-19.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

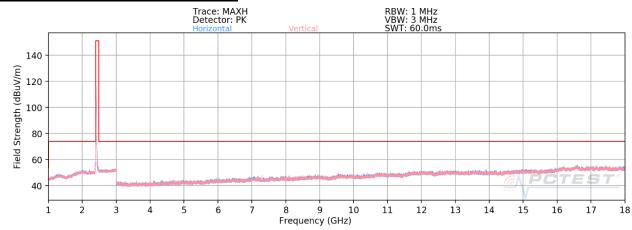
Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

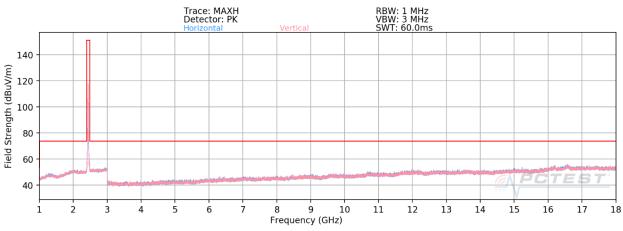
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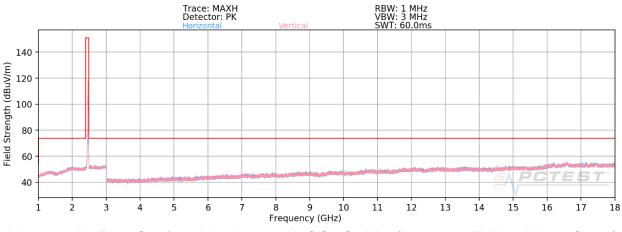


7.7.1 SISO Core 0 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Plot 7-121. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 1)



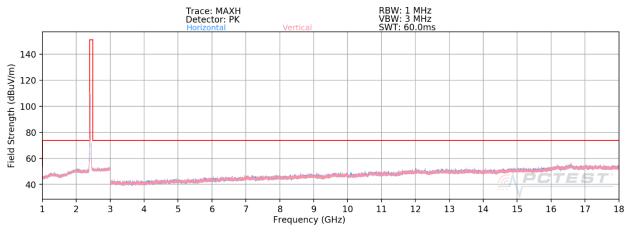




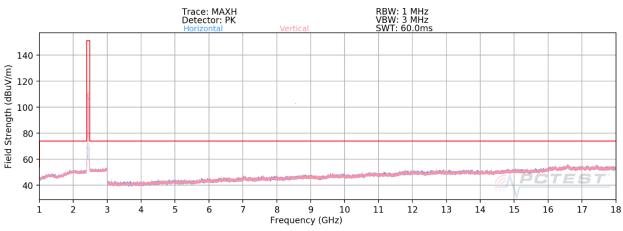
Plot 7-123. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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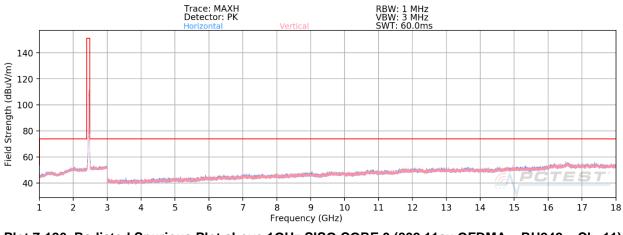




Plot 7-124. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-125. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-126. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax OFDMA - RU242 - Ch. 11)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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SISO Core 0 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-79.58	5.33	32.75	53.98	-21.23
4824.00	Peak	V	-	-	-68.14	5.33	44.19	73.98	-29.79
12060.00	Avg	V	-	-	-82.31	14.53	39.22	53.98	-14.76
12060.00	Peak	V	-	-	-70.69	14.53	50.84	73.98	-23.14

Table 7-20. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.75	5.46	32.71	53.98	-21.27
4874.00	Peak	V	-	-	-68.37	5.46	44.09	73.98	-29.89
7311.00	Avg	V	-	-	-81.19	9.05	34.86	53.98	-19.12
7311.00	Peak	V	-	-	-69.87	9.05	46.18	73.98	-27.80
12185.00	Avg	V	-	-	-82.37	14.64	39.27	53.98	-14.71
12185.00	Peak	V	-	-	-70.39	14.64	51.25	73.98	-22.73

Table 7-21. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 07 of 124
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-79.84	6.02	33.18	53.98	-20.80
4924.00	Peak	V	-	-	-68.35	6.02	44.67	73.98	-29.31
7386.00	Avg	V	-	-	-81.53	9.49	34.96	53.98	-19.02
7386.00	Peak	V	-	-	-70.20	9.49	46.29	73.98	-27.69
12310.00	Avg	V	-	-	-82.62	14.66	39.04	53.98	-14.94
12310.00	Peak	V	-	-	-70.87	14.66	50.79	73.98	-23.19

Table 7-22. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-79.17	5.33	33.16	53.98	-20.82
4824.00	Peak	V	-	-	-67.37	5.33	44.96	73.98	-29.02
12060.00	Avg	V	-	-	-82.27	14.53	39.26	53.98	-14.72
12060.00	Peak	V	-	-	-70.51	14.53	51.02	73.98	-22.96

Table 7-23. Radiated Measurements SISO CORE 0 (RU242)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	
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802.11ax OFDMA
MCS0
61
3 Meters
2437MHz
06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.75	5.46	32.71	53.98	-21.27
4874.00	Peak	V	-	-	-68.68	5.46	43.78	73.98	-30.20
7311.00	Avg	V	-	-	-81.14	9.05	34.91	53.98	-19.07
7311.00	Peak	V	-	-	-69.39	9.05	46.66	73.98	-27.32
12185.00	Avg	V	-	-	-82.16	14.64	39.48	53.98	-14.50
12185.00	Peak	V	-	-	-70.68	14.64	50.96	73.98	-23.02

Table 7-24. Radiated Measurements SISO CORE 0 (RU242)

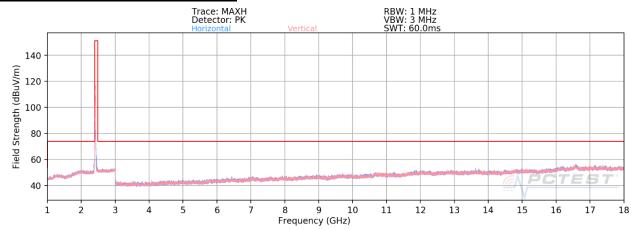
Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel: 802.11ax OFDMA MCS0 61 3 Meters 2462MHz 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.00	6.02	33.02	53.98	-20.96
4924.00	Peak	V	-	-	-67.88	6.02	45.14	73.98	-28.84
7386.00	Avg	V	-	-	-81.77	9.49	34.72	53.98	-19.26
7386.00	Peak	V	-	-	-70.80	9.49	45.69	73.98	-28.29
12310.00	Avg	V	-	-	-82.50	14.66	39.16	53.98	-14.82
12310.00	Peak	V	-	-	-71.22	14.66	50.44	73.98	-23.54

Table 7-25. Radiated Measurements SISO CORE 0 (RU242)

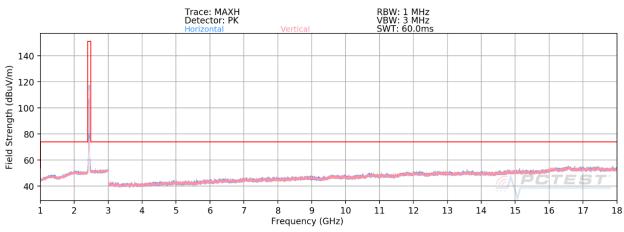
FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 00 of 124
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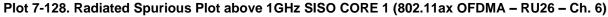


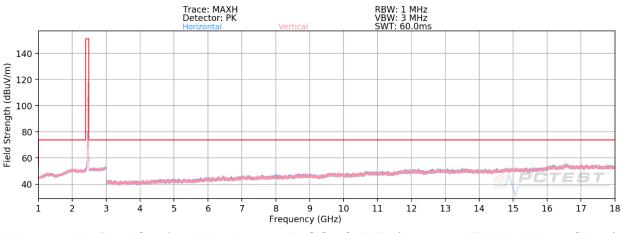


7.7.2 SISO Core 1 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Plot 7-127. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 1)



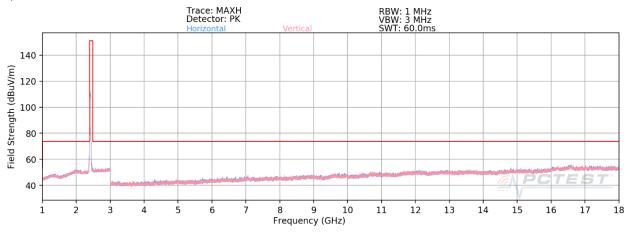




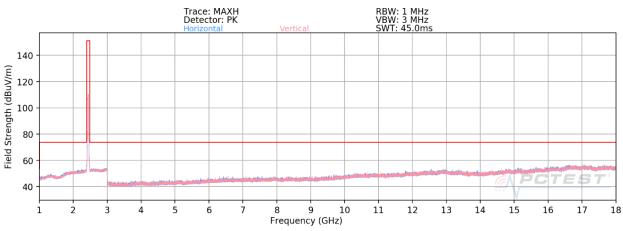
Plot 7-129. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dana 400 at 404		
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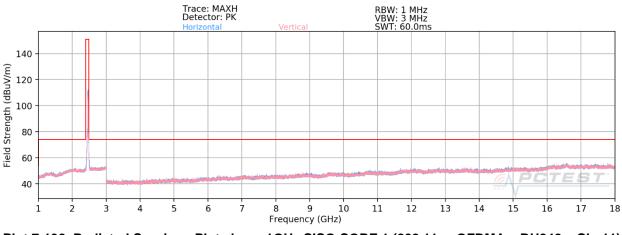




Plot 7-130. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 1)



Plot 7-131. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 6)



Plot 7-132. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11ax OFDMA - RU242 - Ch. 11)

FCC ID: BCGA2228	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:	Degs 101 of 124			
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SISO Core 1 Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	Н	-	-	-79.45	5.33	32.88	53.98	-21.10
4824.00	Peak	Н	-	-	-67.71	5.33	44.62	73.98	-29.36
12060.00	Avg	Н	-	-	-82.29	14.53	39.24	53.98	-14.74
12060.00	Peak	Н	-	-	-70.01	14.53	51.52	73.98	-22.46

Table 7-26. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	Н	-	-	-79.47	5.46	32.99	53.98	-20.99
4874.00	Peak	Н	-	-	-68.39	5.46	44.07	73.98	-29.91
7311.00	Avg	Н	-	-	-81.19	9.05	34.86	53.98	-19.12
7311.00	Peak	Н	-	-	-69.95	9.05	46.10	73.98	-27.88
12185.00	Avg	Н	-	-	-82.18	14.64	39.46	53.98	-14.52
12185.00	Peak	Н	-	-	-70.73	14.64	50.91	73.98	-23.07

Table 7-27. Radiated Measurements SISO CORE 1 (RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 124
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	Н	-	-	-79.80	6.02	33.22	53.98	-20.76
4924.00	Peak	Н	-	-	-68.38	6.02	44.64	73.98	-29.34
7386.00	Avg	Н	-	-	-81.46	9.49	35.03	53.98	-18.95
7386.00	Peak	Н	-	-	-69.65	9.49	46.84	73.98	-27.14
12310.00	Avg	Н	-	-	-82.83	14.66	38.83	53.98	-15.15
12310.00	Peak	Н	-	-	-71.35	14.66	50.31	73.98	-23.67

Table 7-28. Radiated Measurements SISO CORE 1 (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	Н	-	-	-79.56	5.33	32.77	53.98	-21.21
4824.00	Peak	Н	-	-	-67.25	5.33	45.08	73.98	-28.90
12060.00	Avg	Н	-	-	-82.00	14.53	39.53	53.98	-14.45
12060.00	Peak	Н	-	-	-70.94	14.53	50.59	73.98	-23.39

Table 7-29. Radiated Measurements SISO CORE 1 (RU242)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Degs 102 of 124
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	Н	-	-	-79.67	5.46	32.79	53.98	-21.19
4874.00	Peak	н	-	-	-67.52	5.46	44.94	73.98	-29.04
7311.00	Avg	н	-	-	-81.52	9.05	34.53	53.98	-19.45
7311.00	Peak	Н	-	-	-70.03	9.05	46.02	73.98	-27.96
12185.00	Avg	Н	-	-	-82.21	14.64	39.43	53.98	-14.55
12185.00	Peak	н	-	-	-70.49	14.64	51.15	73.98	-22.83

Table 7-30. Radiated Measurements SISO CORE 1 (RU242)

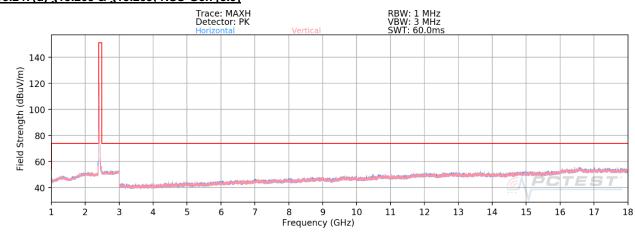
Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel: 802.11ax OFDMA MCS0 61 3 Meters 2462MHz 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	Н	-	-	-79.77	6.02	33.25	53.98	-20.73
4924.00	Peak	Н	-	-	-68.16	6.02	44.86	73.98	-29.12
7386.00	Avg	н	-	-	-81.35	9.49	35.14	53.98	-18.84
7386.00	Peak	Н	-	-	-69.87	9.49	46.62	73.98	-27.36
12310.00	Avg	н	-	-	-82.49	14.66	39.17	53.98	-14.81
12310.00	Peak	Н	-	-	-71.30	14.66	50.36	73.98	-23.62

Table 7-31. Radiated Measurements SISO CORE 1 (RU242)

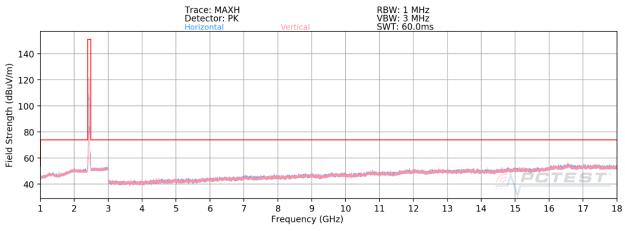
FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 104 of 124	
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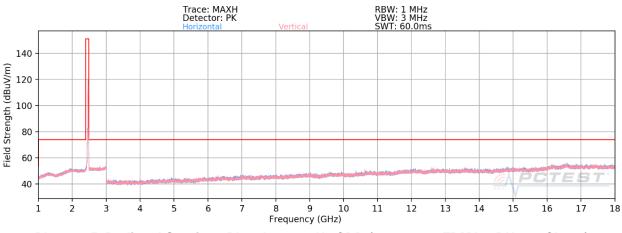


7.7.3 CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]





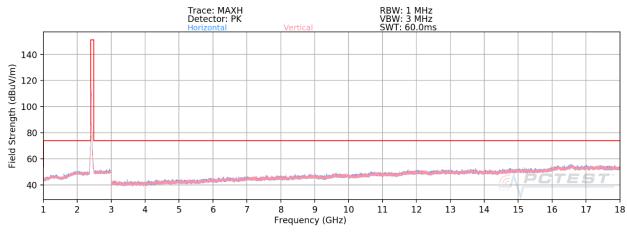




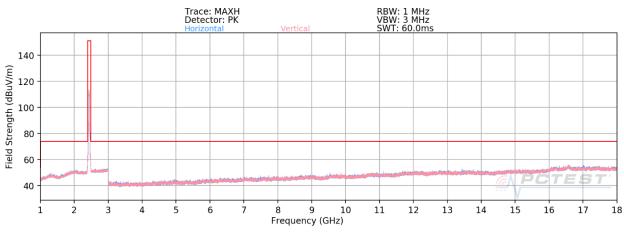
Plot 7-135. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU26 - Ch. 11)

FCC ID: BCGA2228	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Degs 105 of 124		
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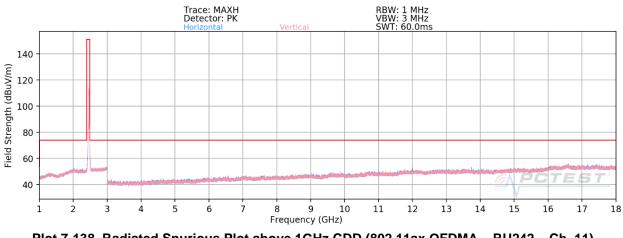




Plot 7-136. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU242 - Ch. 1)







Plot 7-138. Radiated Spurious Plot above 1GHz CDD (802.11ax OFDMA - RU242 - Ch. 11)

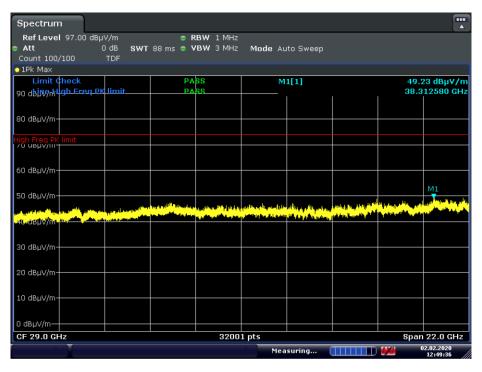
FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Degs 106 of 124		
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CDD Radiated Spurious Emissions Measurements (Above 18GHz) §15.209; RSS-Gen [8.9]







Plot 7-140. Radiated Spurious Plot above 18GHz CDD (802.11ax OFDMA – RU242)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dana 407 - (404			
1C1912170050-03.BCG	12/10/2019 - 02/21/2020	Tablet Device	Page 107 of 134			
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CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-79.32	5.33	33.01	53.98	-20.97
4824.00	Peak	V	-	-	-67.92	5.33	44.41	73.98	-29.57
12060.00	Avg	V	-	-	-82.19	14.53	39.34	53.98	-14.64
12060.00	Peak	V	-	-	-69.72	14.53	51.81	73.98	-22.17

Table 7-32. Radiated Measurements CDD (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Chann	el:		06						
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.82	5.46	32.64	53.98	-21.34
4874.00	Peak	V	-	-	-68.26	5.46	44.20	73.98	-29.78
7311.00	Avg	V	-	-	-81.20	9.05	34.85	53.98	-19.13
7311.00	Peak	V	-	-	-68.84	9.05	47.21	73.98	-26.77
12185.00	Avg	V	-	-	-82.45	14.64	39.19	53.98	-14.79
12185.00	Peak	V	-	-	-71.18	14.64	50.46	73.98	-23.52

Table 7-33. Radiated Measurements CDD (RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 124
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-79.88	6.02	33.14	53.98	-20.84
4924.00	Peak	V	-	-	-68.46	6.02	44.56	73.98	-29.42
7386.00	Avg	V	-	-	-81.39	9.49	35.10	53.98	-18.88
7386.00	Peak	V	-	-	-69.87	9.49	46.62	73.98	-27.36
12310.00	Avg	V	-	-	-82.64	14.66	39.02	53.98	-14.96
12310.00	Peak	V	-	-	-70.18	14.66	51.48	73.98	-22.50

Table 7-34. Radiated Measurements CDD (RU26)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	V	-	-	-79.68	5.33	32.65	53.98	-21.33
4824.00	Peak	V	-	-	-67.90	5.33	44.43	73.98	-29.55
12060.00	Avg	V	-	-	-81.71	14.53	39.82	53.98	-14.16
12060.00	Peak	V	-	-	-70.29	14.53	51.24	73.98	-22.74

Table 7-35. Radiated Measurements CDD (RU242)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Degs 100 of 124
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Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.80	5.46	32.66	53.98	-21.32
4874.00	Peak	V	-	-	-67.85	5.46	44.61	73.98	-29.37
7311.00	Avg	V	-	-	-81.22	9.05	34.83	53.98	-19.15
7311.00	Peak	V	-	-	-69.82	9.05	46.23	73.98	-27.75
12185.00	Avg	V	-	-	-82.29	14.64	39.35	53.98	-14.63
12185.00	Peak	V	-	-	-70.95	14.64	50.69	73.98	-23.29

Table 7-36. Radiated Measurements CDD (RU242)

Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel: 802.11ax OFDMA MCS0 61 3 Meters 2462MHz 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-79.92	6.02	33.10	53.98	-20.88
4924.00	Peak	V	-	-	-68.07	6.02	44.95	73.98	-29.03
7386.00	Avg	V	-	-	-81.41	9.49	35.08	53.98	-18.90
7386.00	Peak	V	-	-	-70.10	9.49	46.39	73.98	-27.59
12310.00	Avg	V	-	-	-82.68	14.66	38.98	53.98	-15.00
12310.00	Peak	V	-	-	-71.23	14.66	50.43	73.98	-23.55

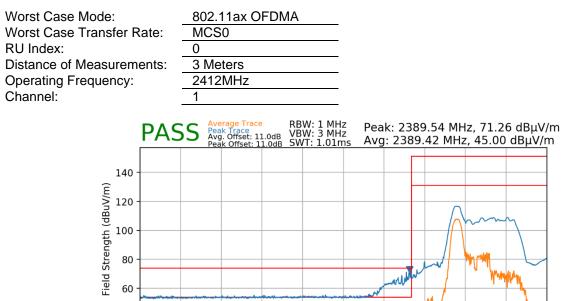
Table 7-37. Radiated Measurements CDD (RU242)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dece 110 of 124
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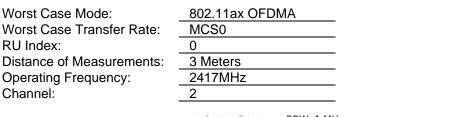


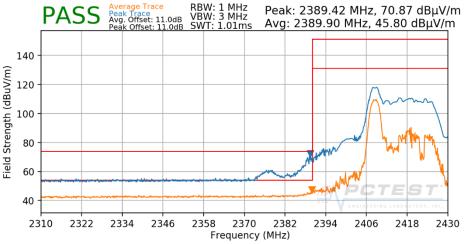
7.7.4 SISO Core 0 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.









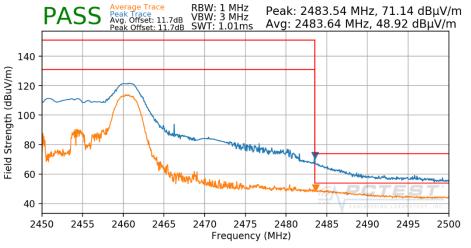


FCC ID: BCGA2228	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 111 of 121		
1C1912170050-03.BCG	12/10/2019 - 02/21/2020	Tablet Device	Page 111 of 134		
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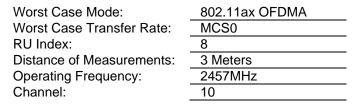


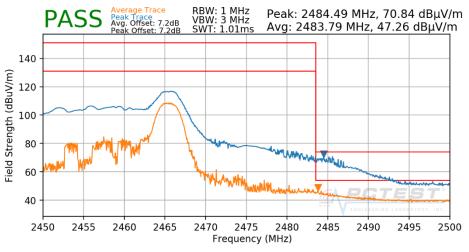
Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel:

	802.11ax OFDMA MCS0			
	8			
:	3 Meters			
	2452MHz			
	9			



Plot 7-143. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average – RU26)





Plot 7-144. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 (Peak & Average – RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 440 at 404	
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